SecureIT® Patch Management

VELOX

PRODUCT OVERVIEW

Version | Q2. 2025

VEL X ®

Develops Opportunities For Enterprises...

INDIA | USA | DUBAI | NEPAL | ZIMBABWE | MEXICO | SRI LANKA

About

Velox is a pioneer of the Indian IT Infra Monitoring and Cyber Security domain. We develop Information Technology Security Solutions and have been in the industry throughout the last decade. Velox has a range of world-class products that meet international standards in terms of quality and delivery. We offer our solutions to many industries, such as the BFSI sector, Healthcare, Manufacturing, and Industrial Automation Systems sector, just to name a few. With Velox's subsidiary in the United States of America, presence in 7 countries and 3 continents and counting, and the inclusion of our adoption of international standards and regulation, with ISO 9001:2015, 20000 & 27000 and PA-DSS global certifications for our operations, Velox is set for global domination.

Milestones

2019 - 2020: Asian-African Chambers of Commerce Award - Excellence in Innovation & Technology

2018 - 2019: CIO Tech - Top 20 Most Promising Cyber Security Solutions Provider

2018 - 2019: Business Connect Magazine - The Company of the Year

2017 - 2018: CTO Forum - Best Service Provider in India

2016 - 2017: Listed in CIO Magazine as India's Top 20 Most Promising Business Intelligence Solution Provider

Registered Members and Business Award Recipients of such fine institutions:

ATMIA   catmi   Gartner.

GeM Government e Marketplace   CIOReview   IACC INDO-AMERICAN CHAMBER OF COMMERCE

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SecureIT®
Patch Management |Overview

SecureIT Patch management gives you the when, where, what and how of security patching and offer rapid assessment and resolution of system vulnerabilities. It tells you when a software vulnerability with an available patch is threatening your infrastructure, where it will have the most critical impact, what the right remediation strategy is and how to deploy it. It is a centralized patch deployment architecture to all or selected agents, automated and control deployment diverse network topologies, including central and remote locations. It maintain functionality across both domain - joined and standalone endpoints even Integration, it supports deployment through Active Directory, also more feasible with the help of API's existing AD server.

SecureIT Patch Management search continuously verifies vulnerabilities and the effectiveness of the patches published by the vendors. It facilitate the creation of patch groups, such as critical patches released in a specific month, for streamlined deployment, patch descriptions, severity levels. This intelligence is then matched Patch Management solution. It capture audit logs like (UI User authentication, Instance reboot/ shutdown, SSH/console login, Mail logs, FTP logs, etc.) and forwards to syslog server. User Based role access.

Our solution is designed to help IT administrators keep away vulnerabilities and malware by applying patches of Windows, Mac, Linux, and third-party applications (Adobe Reader, Google Chrome, Mozilla Firefox, skype and Microsoft Office etc.) in time. That, it is easy to deploy agent via. AD- Ous, Group Policies, login scripts, email, Administrators can manually assign agents to specific management, and can allow end- users to approve and initiate pre-approved actions, Add/Remove program list, can give granular user permissions like read only etc., can functions independently across standalone/joint endpoints, can configure the communication frequency between agents and the server, can hide agent form add/ remove. AD integration provides authentication, permissions and administrative rights management through role - based management with read, write and hidden access including integration with Single Sign on.

SecureIT ®
Patch Management |Overview

Our solution is encrypted (DES- 3, AES 256 bit key), Patch Management file transfer program, designed to securely, reliably, and efficiently transfer files to multiple receivers simultaneously. It is useful for distributing large files to a large number of receivers and makes data distribution highly efficient over any network including satellite links, making it possible to prioritize, plan, and execute workflows, and document your risk reduction efforts, can implement RBAC to establish granular & delegate task to other users. It works in heterogeneous network like across corporate, remote, and internet- connected environments. Our multicast encryption system (TLS & SSL Certificate) is based on Public Key Infrastructure (PKI) security mechanisms with extensions to allow multiple receivers to share a common key and validate the integrity of the connection and communication. If communication with the agent is not then shows as offline. Support SMTP and NTP for date & time synchronization from the NTP server, SNMP (V 1 , 2 , 3).

It has ability to optimize deployment efficiency, simultaneous patch installations without requiring multiple reboots, ability for Users to postpone patch installations temporarily, Remote system control and Real- time monitoring of patch deployment status, including identification of systems pending restart, failed patch installations etc. It supports Bandwidth throttling and synchronization to minimize network impact on Replication Server and Client Agents.

SecureIT ®
Patch Management |Highlights

- Patch management is a secure agent - based (non- temper able) solution - especially for security updates with MD5 - CheckSum Validator and minimum resource utilization.

- Use a Critical updates first approach

- Server patch management best practice:

- periodically scan and update

- Upgrade OS to their latest versions

- Evaluate patches in a test environment before distributing inbuilt & automated backup feature and if required can forwarded to cloud storage.

- auto deployments with options for both static and dynamic bandwidth throttling

- Create more configurations to suit business requirements

- Re-attempt failed patches, Missing patches with system vulnerabilities.

- Web based detailed patch summary reports

- Rollback   process monitored in real – time from the central console with report

- Prioritize security patch updates over non-security updates

- Agent can be organized through manual selection or

  Dynamic groups based such as AD, OS, Location, CPU,

  etc. with Auto failover with nearest available distribution point.

SecureIT®
Patch Management |Highlights

- Create a separate APD task for critical patch deployment

- Enable agents to auto download patches directly with very minimum resource utilization less than 18 MB approx. from a trusted vendor sites, and providing up - to- date data for active clients.

- Allow users to skip a deployment to avoid hindrance in the on - going tasks

- Suspend any optional updates, roll- ups, and feature pack deployment

- Multi- org/ tenant architecture to manage and maintain multiple organizations within a single instance with error - free deployment across all devices with Mobile APP feasibility

- Use a secure gateway server to secure communication between remote endpoints & the server at your place

- Pre- caching capabilities for proactive content and for package caching.

- Single Agent with connection to Common CMDB for tight integration.

- Integration with LDAP or Active Directory for user authentication and authorization.

- Communication mode is with agent-initiated (pull), the solution also support server-initiated (push) distribution of new content, triggering agent-initiated updates.

- Incorporate robust encryption for secure communications.

- Built-in failover mechanisms, such as high availability (HA) or redundant systems.

- Update signatures in one-click from Central Console.

- Network discovery and inventory of all hardware and software connected to your network, including computers, servers and non-computing network devices.

SecureIT ®

Patch Management | Features

- Automated and manual (by Administrator) patch management agent - based solution, flexible deployment strategies through both manual and dynamic agent grouping. Single interface manages all solutions and agents.

- User friendly flexible centralized Single Dashboard to quickly review the current state & perform actions like manage all, adding and removing column, maintain log of user activities, uninstall agents, inventory scans, configure all agent settings etc. in one- click from Central Console

- Real time Monitoring & Reporting with Last report time of each agent; Availability of each agent; Distribution Point assigned to each agent, Version of each agent, Last patch compliance status, Progress of all patches applied, Number of vulnerabilities detected, List of software installed etc.

- Achieve compliance Cross - platform support with pre - caching capabilities.

- Customized Deployments Policies, report templates.

- Third- party applications patching.

- Flexible deployment policies

- Test & approve patches, containers for managing approved policies as backup.

- Template- driven monitoring profiles for easy and quick monitoring results and custom profiles for event logs

- Windows feature update deployment

- Decline patches/ applications, Detect and record previously installed patches, Verify the integrity of installed patches, Identify instances of patch corruption.

- Ensure patch compliance Insightful reports

- Supports PCI Compliance/ OVAL/ SCAP scans

- OS supported - Windows XP, Win 7, Win 10, 11, Linux Based Systems like Debian, Ubuntu, RHEL, Centos, etc. Support deployment of custom packages (EXE or MSI) to endpoints

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BSNL

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VELOX
Develops Opportunities For Enterprises...
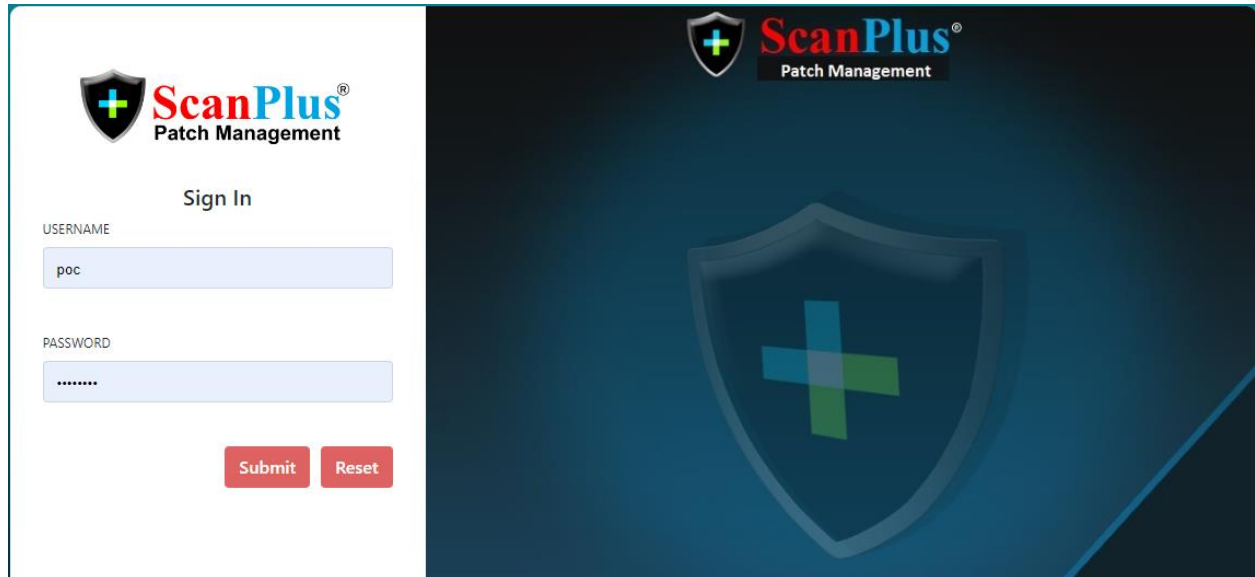
Form/Format	Document No: VSPL/ FF/ 7.3-07 Issue : 1, Rev: 0, Dt- 07-01-2023
Title: Patch Management User Manual	Page 01 of 26

To Login into system user has to type below URL in browser. Login Screen will appear as shown in below Figure

i.   Enter Username and Password for login.

ii.   Click on SUBMIT.

iii.   After click on SUBMIT it will redirect to home page of Dashboard.

iv.   After click on RESET, All Data get cleared

➢ **DASHBOARD:**

We have total two dashboard which are as follows

i.   Status
ii. Patch Tree

1. Status:-

Status dashboard cover various different types of charts which shows different parameters as follows
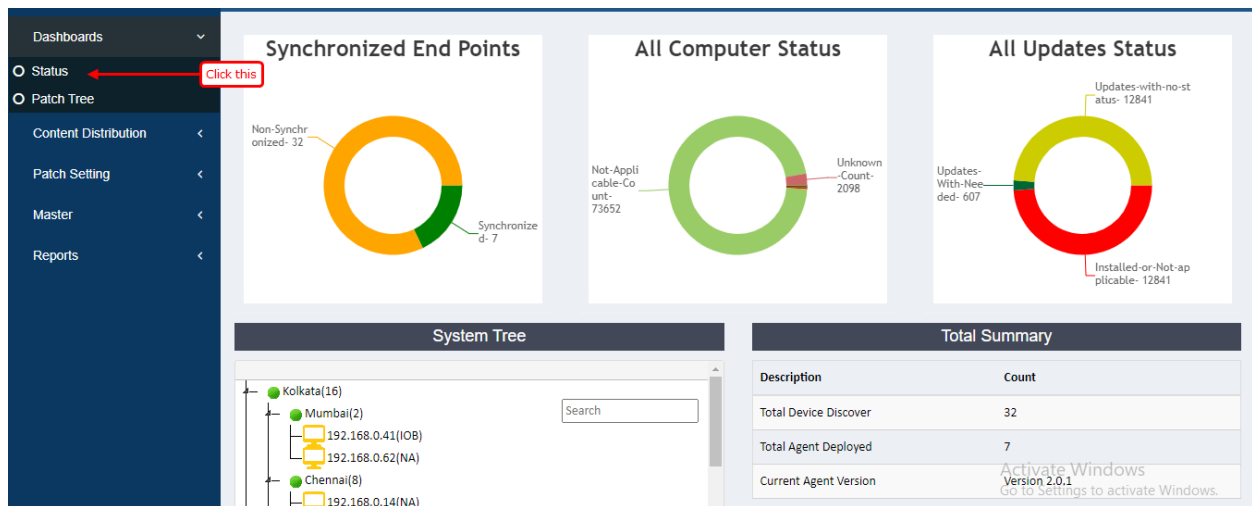
i.   Synchronized End Points
ii.   All Computer Status
iii. All Updated Status
iv.   System Tree
v.   Total Summary

Synchronized End Points:-

This chart shows all the Synchronized and Non-synchronized End Points as shown in the below image.

All Computer status and All update status works the same as synchronizes End Points shown in above figure.

System Tree:-

All the IP's are arranged as per districts then Branches and then system IP as shown in image.

It also shows the Up and down IP's according to colors like yellow is for down and Green is for up
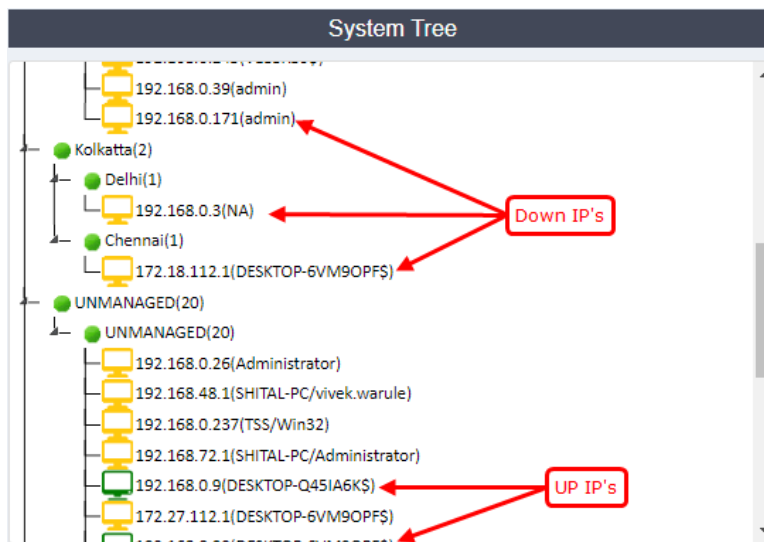
Total Summary:-

It shows total summary of the entire system like total Discovered devices, Total agent deployed and the agent version as well.

Total Summary	
Description	**Count**
Total Device Discover	32
Total Agent Deployed	7
Current Agent Version	Version 2.0.1

2. Tree Patch:-

Tree Patch shows the entire To Do list like what approvals are pending and what the security update is.

Then we can see the overview of the all the computer status and the update status.

In the left side panel we can see the system tree it will show all the Upstream and Downstream systems according to locations and inside that we can see all the update likes security and critical updates.

We have also given option for synchronization status right above the computer status.

Once you click on any of the option like critical or security updates the system will redirect you to the next page where all the data will be shown as per below image.

Now we are finished with the dashboard so we can move to the next part which is **Content Distribution**

➢ **Content Distribution:-**
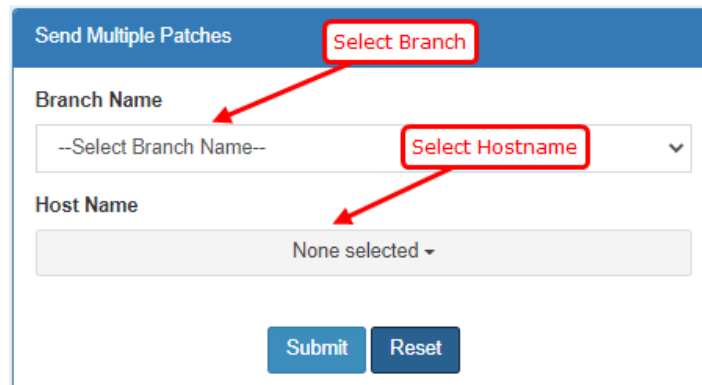
Content Distribution has multiple options as shown in the image below
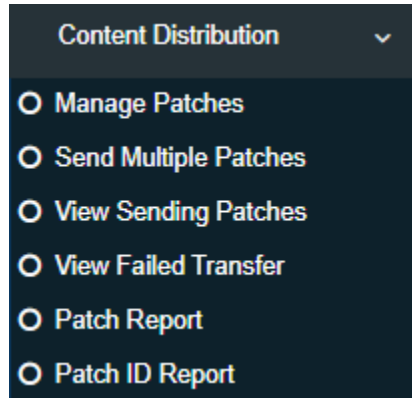
    i.   Manage Patches
    ii.   Send Multiple Patches
    iii.   View Sending Patches
    iv.   View Failed Transfer
    v.   Patch Report
    vi.   Patch ID Report

Send Multiple Patches:-

In Send Multiple Patches we just have to select the **Branch Name** and **Host Name** where you want to send the patches

View Sending Patches:-

By clicking on this option we can see all the details of the patches which are currently being sending.

IP Address	Speed	Interval Time	File Name	Total Percentage	Total File Sent	Total File Size	Elapse Time	Status
192.168.0.183	9.94MB	5 ms	word2010-kb4493145-fullfile-x64-glb.exe	73.17%	19.87MB	27.16MB	0 min, 2 sec	Sending Stopped

Showing 1 to 1 of 1 entries

View Failed Transfer:-

By clicking on this option we can check all the failed transfers and you can also take action on the failed transfer using the action key.

View Failed Transfer

Sr No	Actions	IP Address
1	■	192.168.0.62

Showing 1 to 1 of 1 entries

Previous 1 Next

Patch Report:-

By clicking on this option we can get all the Patch Reports and we have given two options for these reports also

 i. IP Wise
 ii. File Wise

Patch ID Report:-

This option gives us the reports according to Patch IDs

We have completed the Content Distribution section and now we will move to the next section which is Patch Setting

➤ **Patch Setting**

Patch Setting gives us multiple options regarding to the patches the listing of is as shown below
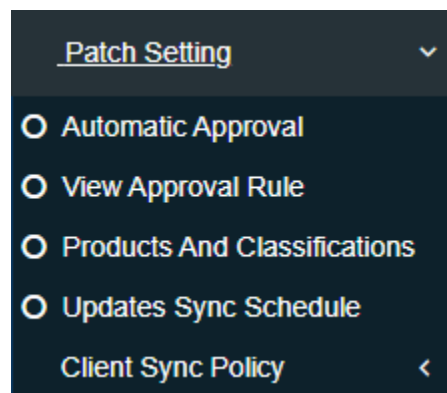
i.   Automatic Approval

ii.   View Approval Rule

iii.   Products and Classifications

iv.   Update Sync Schedule

v.   Client Sync Policy

        a.   View Sync Policy

        b.   Client Wise Sync Policy

        c.   View Client wise Sync Policy

Automatic Approval:-

As the name suggest it gives you option to set rules for automatic approval of the patches

View Approval Reports:-

This module shows us the listing of all the rules which we set from the automatic approval tab

Delete	Sr No	Rule Name	Status	View Rule	Enable Rule	Disable Rule
🗑	1	Vivek	Disable	☑	☑	☑
🗑	3	Shital	Enable	☑	☑	☑
🗑	4	PratikshaM	Enable	☑	☑	☑

Showing 1 to 3 of 3 entries

Previous 1 Next

Products and Classifications:-

This module shows you all the product updates and classification updates which are currently available in the system and there is also option given to select multiple product and classification updates at a time so you can bulk update the system
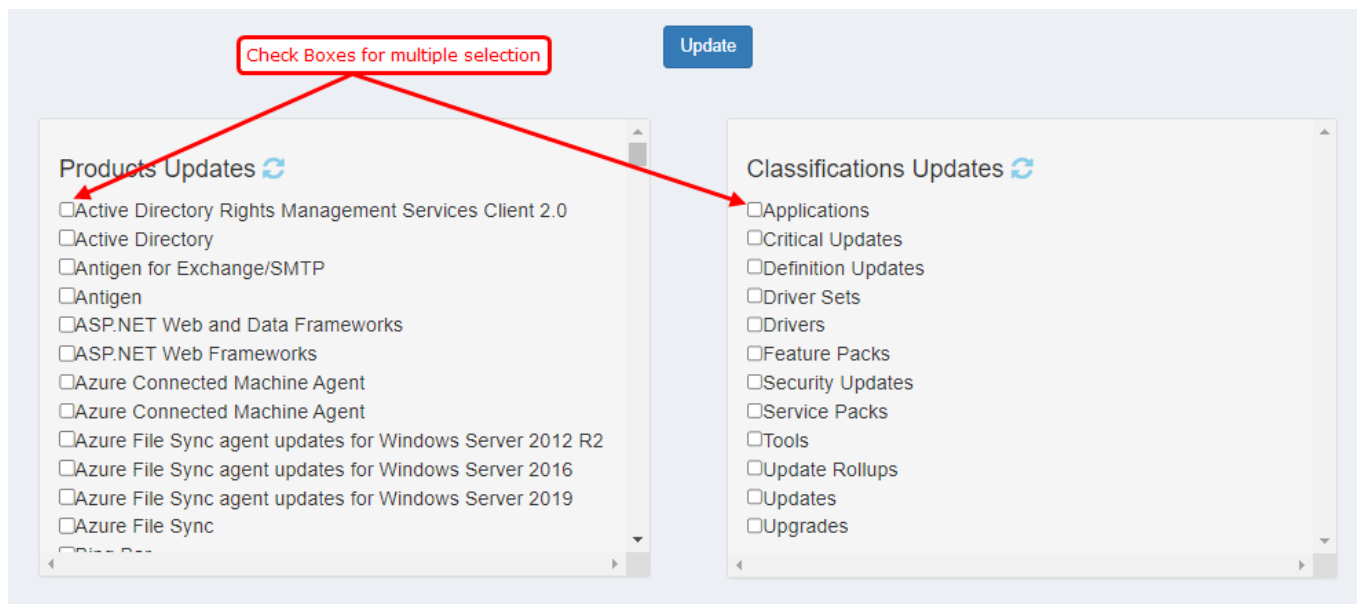
Update Sync Schedule:-

In this module we have given the option to update the synchronization process which has two options

    i.   Synchronization manually
   ii.   Synchronization Automatically

Following image shows both the options and the listing of this synchronization module
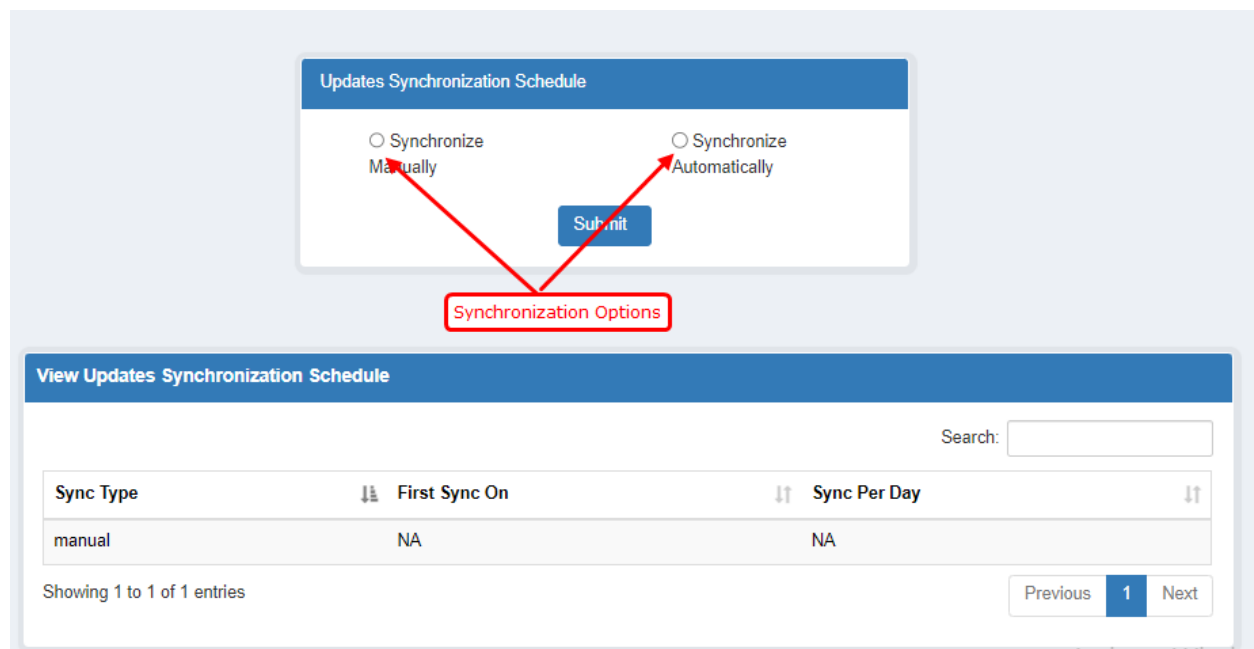
Client Sync Policy:-

This module has three different options and this module shows the policies applied to the client to connect it to the **Patch Server**

a) View Sync policy
b) Client Wise Sync Policy
c) View Client Wise Sync Policy

a. View Sync Policy:-

        In this module we can check all the Synchronization policies which are present in the system

It will also show all the details of the policies like Server IP, Port , IP address and any parameters if applied we can also take action on the Polices

View Synchronization Policy						
Action	SERVER IP	IP ADDRESS	PORT	PARAMETER	DAY	TIME

b. Client Wise Sync Policy:-

In this module we can create our own policies as per requirement and store those policies.

There are total three different types we can create which are as follows

1. Notify For Download and Notify for Install
2. Auto Download and Notify for Install
3. Auto Download and Schedule for Install

Notify for Download and Notify for Install:-

As the name suggest if you select this option in **Patch Update Parameter** the system will always notify for download and installation of the updates

Auto Download and Notify for Install:-

As the name suggests if you select this option in **Patch Update Parameter** the system will always Auto Download the updates and notify for installation.

Auto Download and Schedule for Install:-

As the name suggests if you select this option in **Patch Update Parameter** the system will always Auto Download the updates and then you can Schedule the installation as per your requirement. You can also select install day and install time.

➢ **Master**

In Master we have multiple options which are as follows
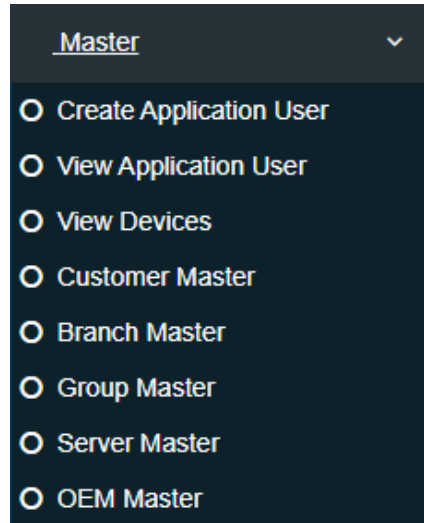
Create Application User:-

This module is use to create Users. We just have to enter all the details which is present in the below image and hit submit then a user will be created.

View Application User:-

As the name suggest in this module you can check all the created users. You can also take actions on these created users like Update user info, Reset password, Delete User, and Change the scope.

View Devices:-

This module will show all the devices which are present and discovered by the system and you can also edit as well as delete these devices.

Customer Master:-

Using this module we can create multiple customers as shown in the image. You can also edit or delete the existing customers.

Branch Master:-

Using this module we can create multiple branches as shown in the image. You can also edit or delete the existing branches.

Group Master:-

Using this module we can create multiple groups as shown in the image. You can also edit or delete the existing groups.

Add Group		
Group Name		
Enter Group Name		
	Submit Reset	

Group Details			
			Search:
Edit	**Delete**	**Group Name**	
✎	🗑	testing window 3	
✎	🗑	testing patch management	
✎	🗑	E222	

Server Master:-

Using this module we can create multiple server names as shown in the image. You can also edit or delete the existing server names.

Add Server		
Server Name		
Enter Server Name		
	Submit Reset	

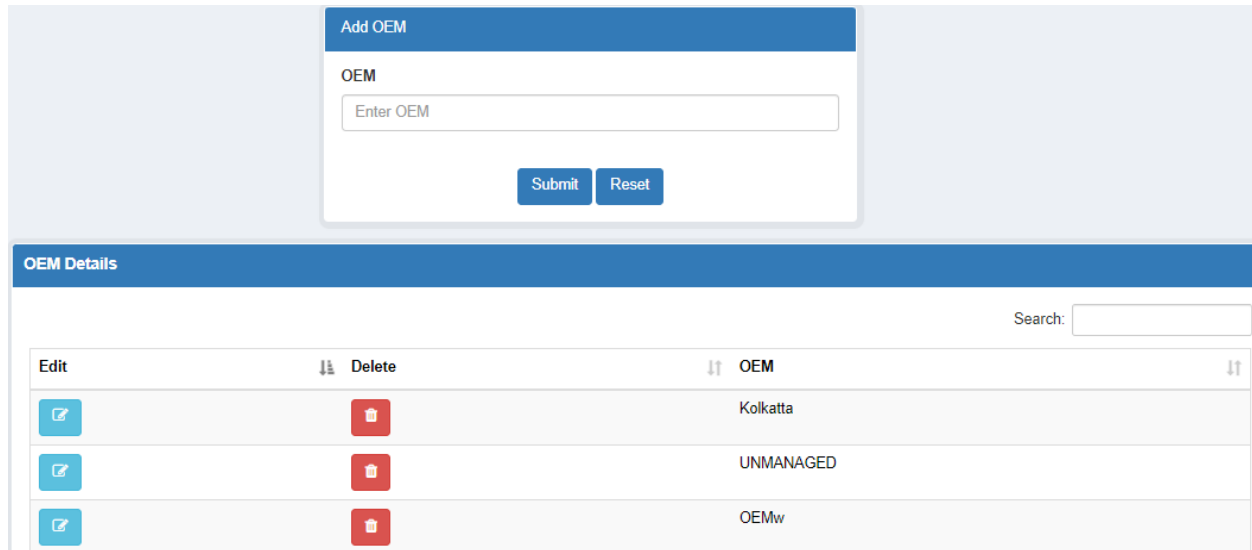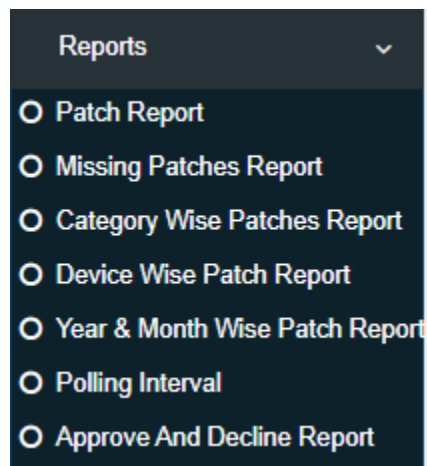| **Server Details**			
			Search:
Edit	**Delete**	**Server Name**	
✎	🗑	Kolkatta	

OEM Master:-

Using this module we can create multiple OEM names as shown in the image. You can also edit or delete the existing OEM names.

> ➤ **Reports**

Reports are one of the most important module and in this we have given multiple different types of reports which are as follows.

Patch Reports:-

In this module we can get the reports according to the updates which can be security or critical update and if these updates are approved or declined.

Below Image shows Patches Report

Missing Patch Reports:-

In this module as the name shows it gives us all the reports for the patches which hare missing for that we just have to select from and To Date.

Missing Patches Report

From Date

📅 Please Select From Date

To Date

📅 Please Select To Date

Submit   Reset

Category Wise Patches Reports:-

In this module we can get category wise reports in which we just have to select year, Months & category for which you want a report for.

Patches Report

Year

2021

Month

Jan

Category

Deployment Basis

End Points

None selected ▾

Patch Name

None selected ▾

Submit   Reset

Below image shows category wise reports

End Point Name	IP Address	Operating System	System Type(BIT)	RAM	Agent Version	Patch ID	Patch Details	Patch Status	Patch Deployment Date
VSPL-PATCH-TEST.veloxsolutions.local	192.168.0.230	Microsoft Windows 7 Ultimate	x64	8083	Version 2.0.1	KB971033	3e06cfd5-f5dc-4291-9029-1182511dd4b7	Installed	1/22/2021
VSPL-PATCH-TEST.veloxsolutions.local	192.168.0.230	Microsoft Windows 7 Ultimate	x64	8083	Version 2.0.1	KB2425227	3e06cfd5-f5dc-4291-9029-1182511dd4b7	Installed	1/22/2021
VSPL-PATCH-TEST.veloxsolutions.local	192.168.0.230	Microsoft Windows 7 Ultimate	x64	8083	Version 2.0.1	KB2476490	3e06cfd5-f5dc-4291-9029-1182511dd4b7	Installed	1/22/2021
VSPL-PATCH-TEST.veloxsolutions.local	192.168.0.230	Microsoft Windows 7 Ultimate	x64	8083	Version 2.0.1	KB2478662	3e06cfd5-f5dc-4291-9029-1182511dd4b7	Installed	1/22/2021

Device Wise Patch Reports:-

This module will give us Device Wise Patch Reports by giving the information as branch and IP address

Device Patches Report

Branch

None selected ▾

IP Address

None selected ▾

Submit   Reset

Below image show the device wise category Report

Year and Month Wise Patch Report:-

This module will give us reports according to year and months .

Below module shows the reports of patches according to the year and Month.

IP Address	Branch Name	PC Name	Patch ID	Patch Type	Patch Installed Date	Patch Discover Date
10.129.25.56	Kolkatta	CMODCPM1	KB3020393	Security Update	1/21/2021	2022-03-10 18:55:02
192.168.0.23	UNMANAGED	WINCTRL-H7B5GUA	KB958830	Update	1/19/2021	2021-03-31 16:16:43
192.168.0.23	UNMANAGED	WINCTRL-H7B5GUA	KB3191566	Update	1/20/2021	2021-03-31 16:16:43
192.168.0.23	UNMANAGED	WINCTRL-H7B5GUA	KB2809215	Update	1/20/2021	2021-03-31 16:16:43
192.168.0.23	UNMANAGED	WINCTRL-H7B5GUA	KB2872035	Hotfix	1/20/2021	2021-03-31 16:16:43

Print | Copy | Excel | PDF | Column Visibility

Search:

Showing 1 to 5 of 52 entries

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Approve and Declined Reports:-

This module will give us all the approved and declined patches reports according to the Dates

Approve And Decline Report

From Date

Please Select From Date

To Date

Please Select To Date

Submit   Reset

Below image shows the reports for the approved and declined patches

Action	Group Name	Patch Title	Patch Classification	Username	Date	Time
Approved	All Computers	2017-05 Cumulative Update for Windows 10 for x64-based Systems (KB4019474)	Security Updates		2022-01-05	12:16:23
Approved	All Computers	2017-05 Cumulative Update for Windows 10 for x64-based Systems (KB4019474)	Security Updates	poc	2022-01-05	13:17:07
Approved	All Computers	Security Intelligence Update for Windows Defender Antivirus - KB915597 (Version 1.301.1684.0)	Definition Updates	poc	2022-01-07	17:50:50
Approved	All Computers	2019-03 Servicing Stack Update for Windows Embedded Standard 7 for x64-based Systems (KB4490628)	Security Updates	poc	2022-01-07	18:07:48
Approved	All Computers	2019-03 Servicing Stack Update for Windows 7 for x64-based Systems (KB4490628)	Security Updates	poc	2022-01-07	18:07:48

Approve and Decline Report   From Date: 2022-01-01   To Date: 2023-01-07

Print Copy Excel PDF Column Visibility   Search:

Showing 1 to 5 of 24 entries

Previous 1 2 3 4 5 Next

Pre-requisite of

Patch Management Solution

By Velox Solution Pvt. Ltd.

India | USA | Dubai | South Africa | Mexico | Sri Lanka

Website: www.velox.co.in/www.veloxtech.us

Pre-Requisite of Hardware

Hardware:

Application Servers: 1 No

Server Configuration	Processor	Xeon 3.4 GHz Quad Core and Above
	Memory	Minimum 32 GB
	Local Storage	Capacity: Minimum 2 TB C: 200GB D: 1.8 TB
	OS	Windows 2019 & above
Connectivity	LAN & WAN	Dedicated IP with internet access for patch synchronization.

Network Pre-requisite for Patch Management:

Port allowing for communication

SecureIT server uses following port to communicate with Desktop.
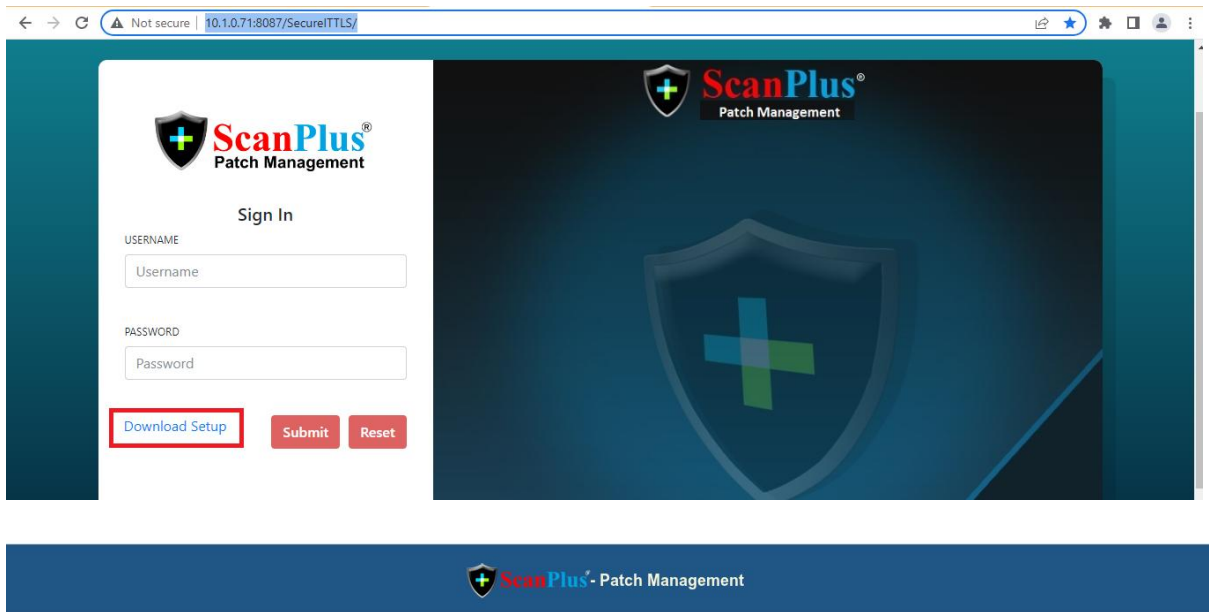Network team should allow following port bidirectional in network.

Source	Destination	Type	Destination Port No.
Desktop Machine (Client)	Patch Management Server	TCP	8530,8531,11003
Desktop Machine (Client)	SecureIT Database Server	TCP	9002
Patch Management Server	SecureIT Database Server	TCP	9002,11003
Patch Management Server	Desktop Machine (Client)	TCP	20001,1523

Note: To install patch management agent on desktop Administrator access should be required along with availability of network port as per mentioned above.

End of Document

Steps for installation of SecureIT Agent:
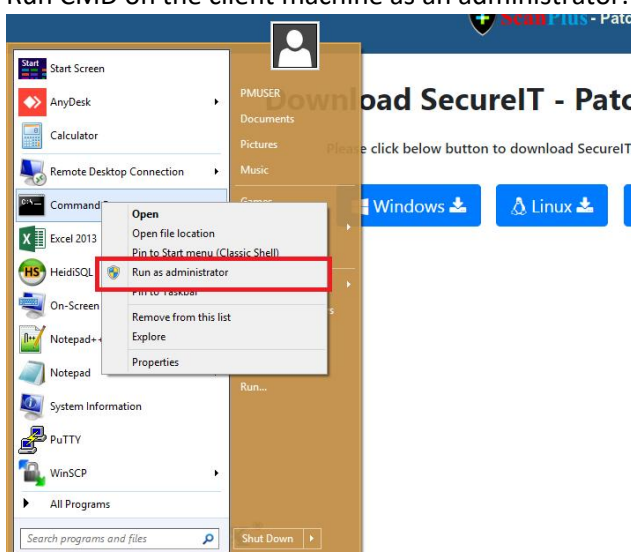
1. Download the installer from the URL: http://10.1.0.71:8087/SecureITTLS/
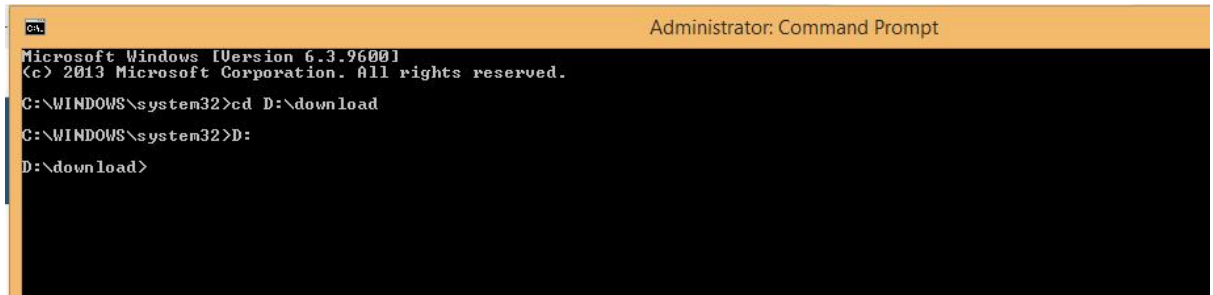

2. Run CMD on the client machine as an administrator:

3. Copy the download path of the installation or move the installation to a desired directory and paste the installation path in cmd as :
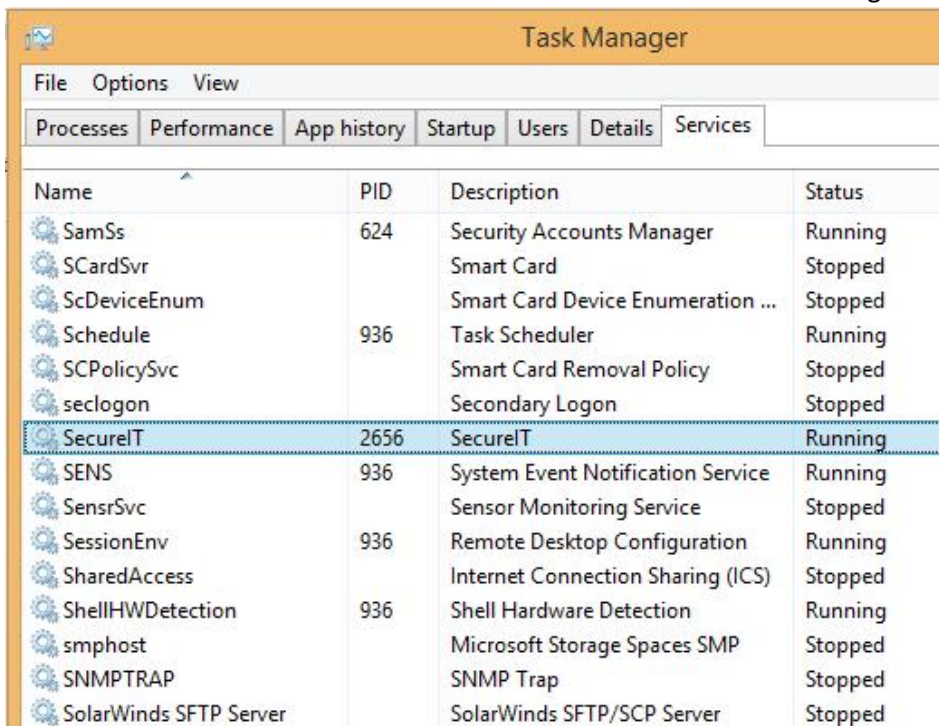
cd <Directory>

4. To execute the msi file from the cmd, specify the name of the MSI file and enter:

5. An installation window will be displayed which will automatically install the agent in the background.
6. To verify if the installation has been completed, you can check in the 'Task Manager > Services' if a service named "SecureIT" has been created and is in running status

Patch Management - FAQs

1. What is Patch Management?
Patch Management is the process of updating software, applications, and operating systems to fix vulnerabilities, improve security, and enhance performance.

2. Why is Patch Management important?
Regular patching helps protect systems from security threats, reduces downtime, and ensures compliance with industry standards.

3. What types of patches are managed?
The system handles security patches, bug fixes, feature updates, and critical hotfixes for operating systems and applications.

4. How does the Patch Management system work?
The system scans for available patches, evaluates their impact, schedules deployments, and monitors installations to ensure successful updates.

5. Can patches be deployed automatically?
Yes, patches can be deployed automatically based on predefined schedules or manually triggered as needed.

6. How do we track patch deployment?
The system provides detailed reports on patch deployment status, failed updates, and pending patches.

7. How does the system handle critical security patches?
Critical patches are prioritized and deployed immediately to minimize security risks.

8. How does Patch Management improve compliance?
It helps organizations meet regulatory requirements by ensuring all systems are up to date with security patches.

9. What are the best practices for Patch Management?

- Regularly scan for updates
- Monitor patch installations
- Maintain detailed patch records

10. How frequently should patches be applied?
Security patches should be applied as soon as they are available, while feature updates can be scheduled periodically.